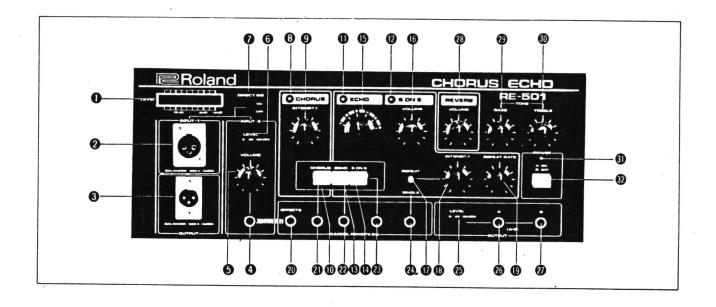




RE-501
CHORUS ECHO

Bezeichnungen und Funktion der Bedienungselemente



1. LED Aussteuerungsanzeige

Regeln Sie den Eingang so, daß die LED-Kette O dB anzeigt und die Spitzen bei max + 2 dB liegen.

2. Symmetrischer Eingang (XLR - 600 Ohm)

Der "Volume"-Regler hat keinen Einfluß auf diesen Eingang. Bei einem + 4-dBm-Eingang zeigt die LED-Kette O dB.

3. Symmetrischer Ausgang (XLR - 600 Ohm)

Wenn die LED-Kette O dB anzeigt, besitzt das Ausgangssignal + 4 dB.

Auf diesem Ausgang liegen alle Effekte des RE-501 zusammengefaßt (A + B).

4. Unsymmetrischer Eingang (Klinke)

Direkteingang für Mikrofon, Gitarre oder Keyboards

5. "VOLUME"

Lautstärkekontrolle für den unsymmetrischen Eingang

6. Eingangsanpassungsschalter für Klinkeneingang

Mikrofon - 50 dBm Gitarre - 25 dBm Synthesizer O dBm Mixer O oder - 25 dBm

7. Schalter Direktsignal ein/aus

Wenn Sie das RE-501 in ein Mischpult einschleifen, schalten Sie das Direktsignal aus (off). Bei Betrieb zwischen Instrument und Verstärker schalten Sie das Direktsignal ein (on).

8. CHORUS LED

Die LED leuchtet, wenn der Choruseffekt eingeschaltet ist.

9. CHORUS-Tiefe-Kontrolle

Mit diesem Regler bestimmen Sie die Stärke des Choruseffektes.

10. CHORUS-Ein/Aus-Schalter

11. ECHO LED

Die LED leuchtet, wenn Echo eingeschaltet ist.

12. S ON S LED

Die LED leuchtet, wenn der "Sound on Sound"-Effekt eingeschaltet ist.

13. ECHO-Ein/Aus-Schalter

14. "S ON S"-Ein/Aus-Schalter

15. Echoarten-Wiedergabekopfkombinationen

			1	2	3	4	5	6
Tonkopf	1		\overline{X}			X		X
11	2	*		X		X	X	X
11	3				X		X	X

16. "ECHO"- und "S ON S"-Lautstärke

Der "Volume"-Regler bestimmt die Lautstärke von Echo und "S on S", hat aber keinen Einfluß auf das Direktsignal.

17. Schalter Einfachwiederholung (SINGLE/REPEAT)

Mit diesem Schalter sperren Sie die Rückführung auf den Aufspielkopf. Das bedeutet, jeder Wiedergabekopf gibt nur einmal ein Einfachecho ab. Je nach Echoart können Sie so lfach-, 2fach- oder 3fach-Wiederholungen erzielen. Der Schalter wirkt auch auf den "S on S"-Effekt.

18. INTENSITY (Wiederholungshäufigkeit)

Der Regler bestimmt die Rückführung auf den Eingang (Feedback). Je mehr er im Uhrzeigersinn gedreht wird, umso mehr Echowiederholungen finden statt (wirkt nur, wenn der Schalter "single/repeat" auf "repeat" steht). Beachten Sie, daß sich bei zu starkem Feedback das Signal selber aufschaukelt und das zu einer Zerstörung der Elektronik führen kann.

19. REPEAT RATE - Wiederholungsgeschwindigkeit

Der Regler kontrolliert die Geschwindigkeit des Bandes und damit die Zeit zwischen den Echo- bzw. "S on S"-Wieder-holungen.

20. - 24. Fußschalteranschlüsse

Über diese Anschlüsse können mit Hilfe der Fußschalter FS-1, FS-2 oder FS-3 alle Funktionen des RE-501 ferngesteuert werden.

25. Ausgangsanpassungsschalter (für die Klinkenausgänge)

Gitarrenverstärker - 25 dBm Gesangsverstärker - 50 dBm Mischpult O oder - 25 dBm

26. Ausgang A

Wenn Ausgang B nicht genutzt wird, so liegen alle Effekte auf diesem Anschluß (A + B).

27. Ausgang B

In Verbindung mit einem Anschluß an A entsteht eine stereophone Zuordnung der Effekte.

28. Hall-Lautstärke

Allen Effekten kann mit dem Regler "Reverb Volume" ein Halleffekt zugemischt werden.

- 29. Klangkontrolle Bass (beeinflußt Effektsignale)
- 30. Klangkontrolle Höhen (beeinflußt Effektsignale)

31. NETZ LED

leuchtet, wenn das Gerät eingeschaltet ist.

32. Netzschalter

Eingänge und Ausgänge

Die Ein- und Ausgänge (symmetrisch und unsymmetrisch) können in beliebiger Kombination genutzt werden.

Der symmetrische und unsymmetrische Eingang wird intern gemischt, so daß sie parallel genutzt werden können.

Auch die symmetrischen und unsymmetrischen Ausgänge können parallel genutzt werden.



RE-501, SRE-555 SERVICE NOTES

SPECIFICATIONS

Input Level/Impedance

Balanced: Unbalanced: +4dBm/30kΩ $0 dBm/47 k\Omega$

-25dBm/220KΩ -50 dBm/6.6KΩ

Output Level/Impedance

Balanced: Unbalanced

+4dBm/600Ω 0dBm/More than 5KΩ - 25 dBm/More than 5KΩ -50 dBm/More than 5KΩ

Input-2-Level Switch (0, -25, -50 dBm) Output A·B Level Switch (0, -25, -50dBm) SRE-555

Power Consumption:

Dimension: Weight:

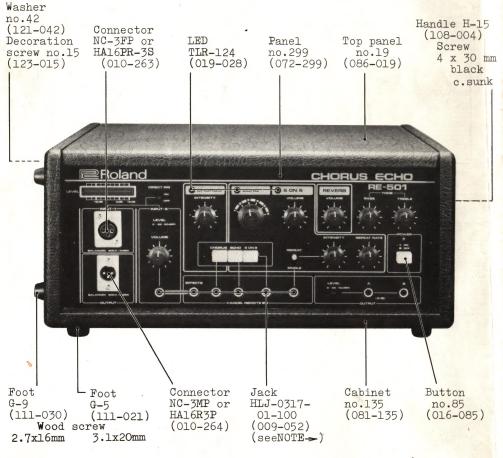
480(W) × 180(H) × 450~735(D)mm 15.8kg

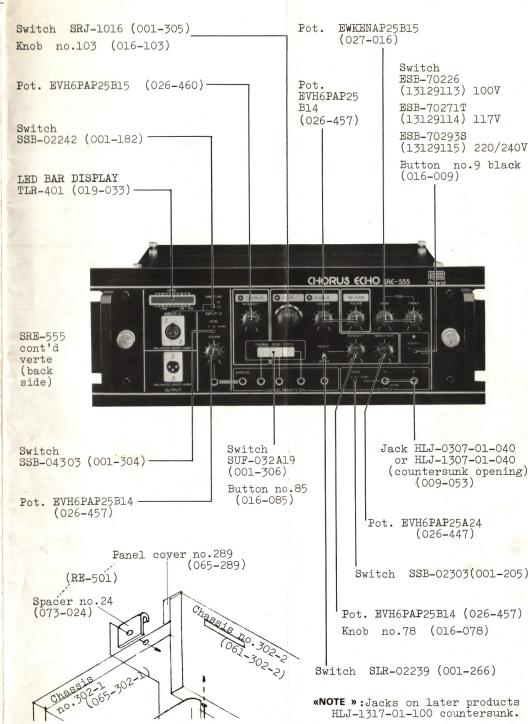
RE-501

Power Consumption: Dimensions: Weight:

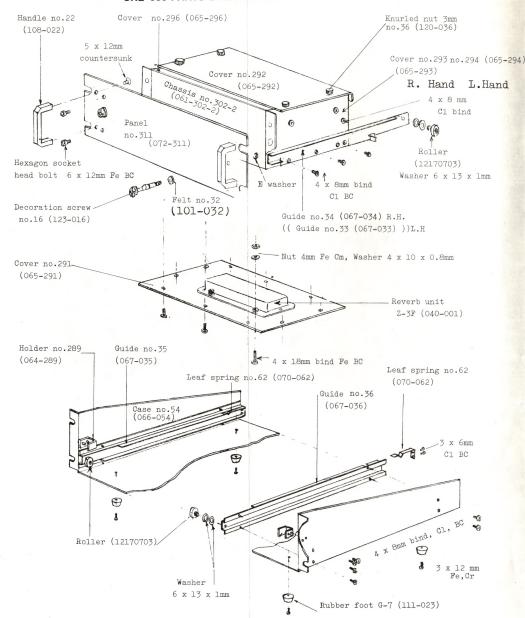
418(W) × 190(H) × 330(D) mm

CABINET DISASSEMBLY: Remove screws - two decorations on both sides; eight 4 x 25mm truss (6 bottom, 2 sides).

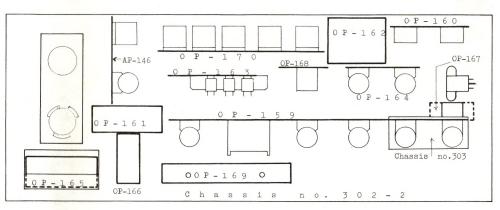


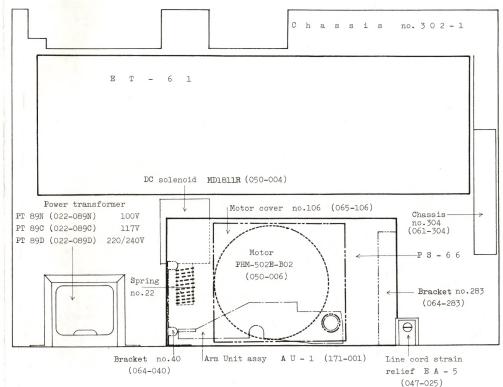


SRE-555 PARTS BREAK DOWN



RE-501, SRE-555 CHASSIS-ASSEMBLY ILLUSTRATION



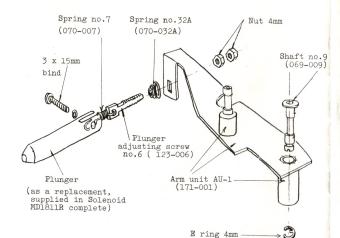


ARM UNIT

NOTE:

The following list indicates the parts compatible but have different finishes. Of these, used mainly for RE501/SRE555 are chrome ones.

Name	Finish			
	black	chrome		
Frame Frame Frame Frame Plate	no.13 no.14 no.15 no.16 no.28	no.7 no.8 no.9 no.10 no.11		

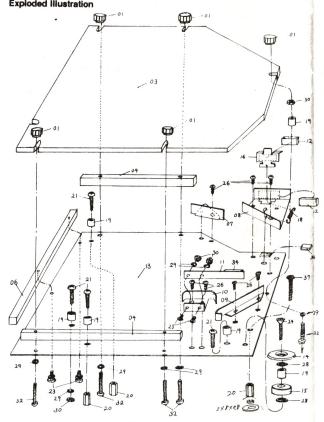


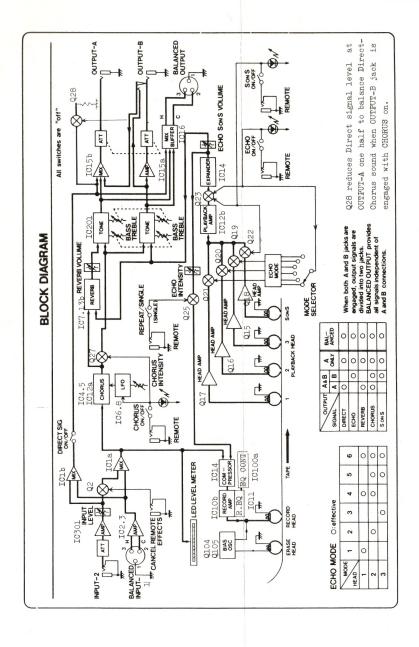
TAPE PACK

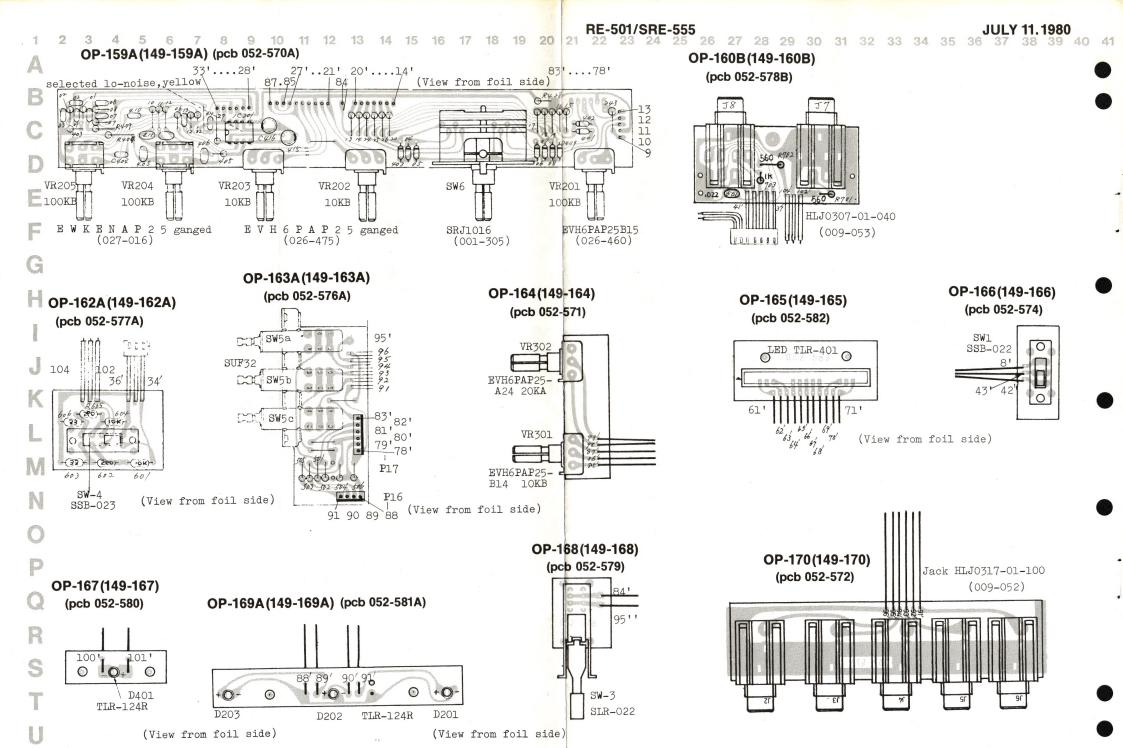
Build Up Parts List

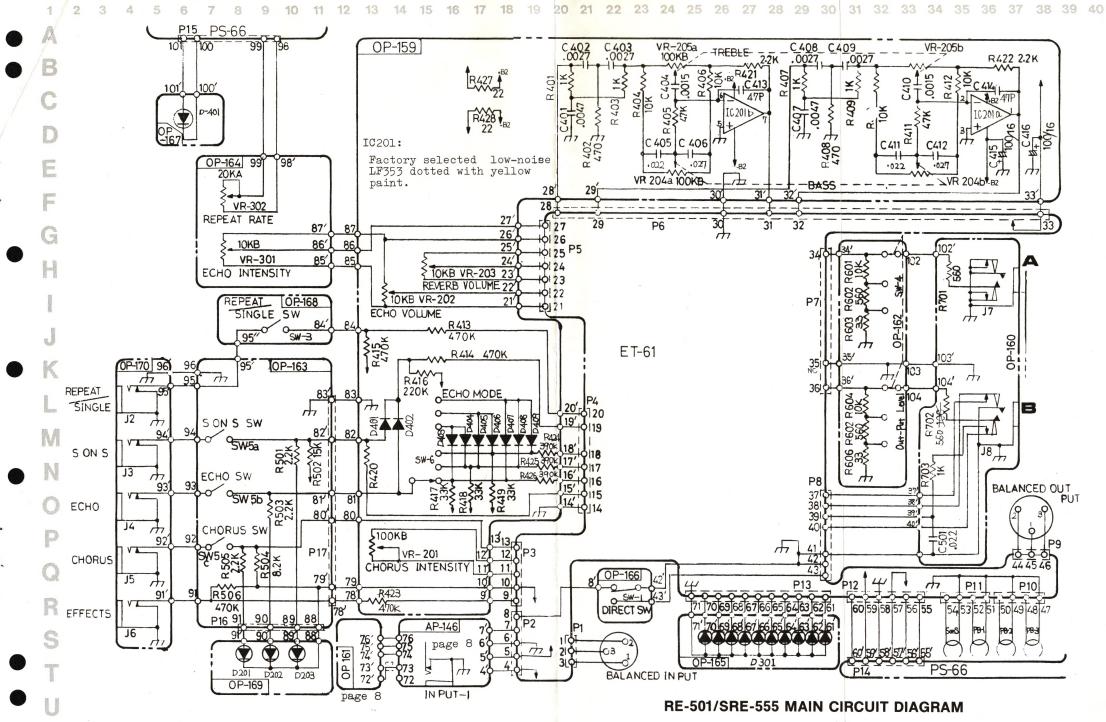
Exploded II	lustration
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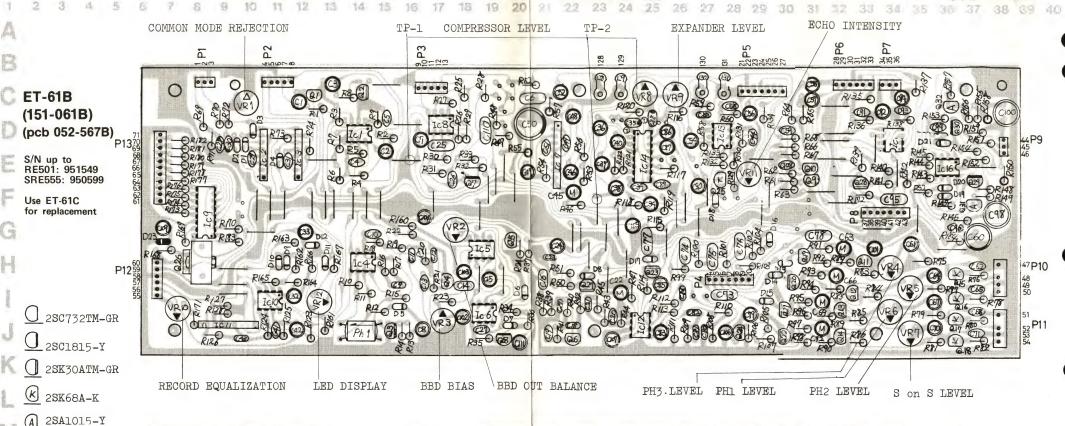








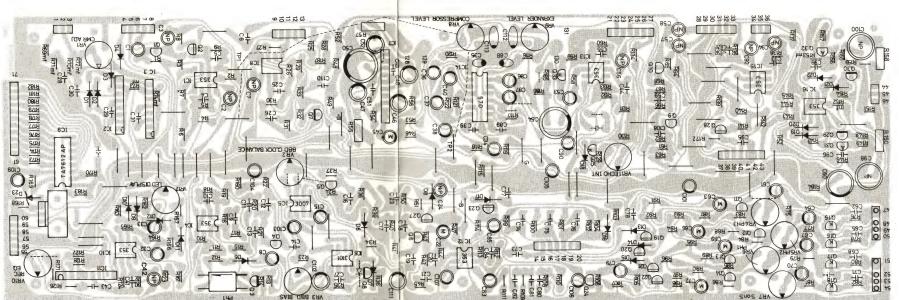


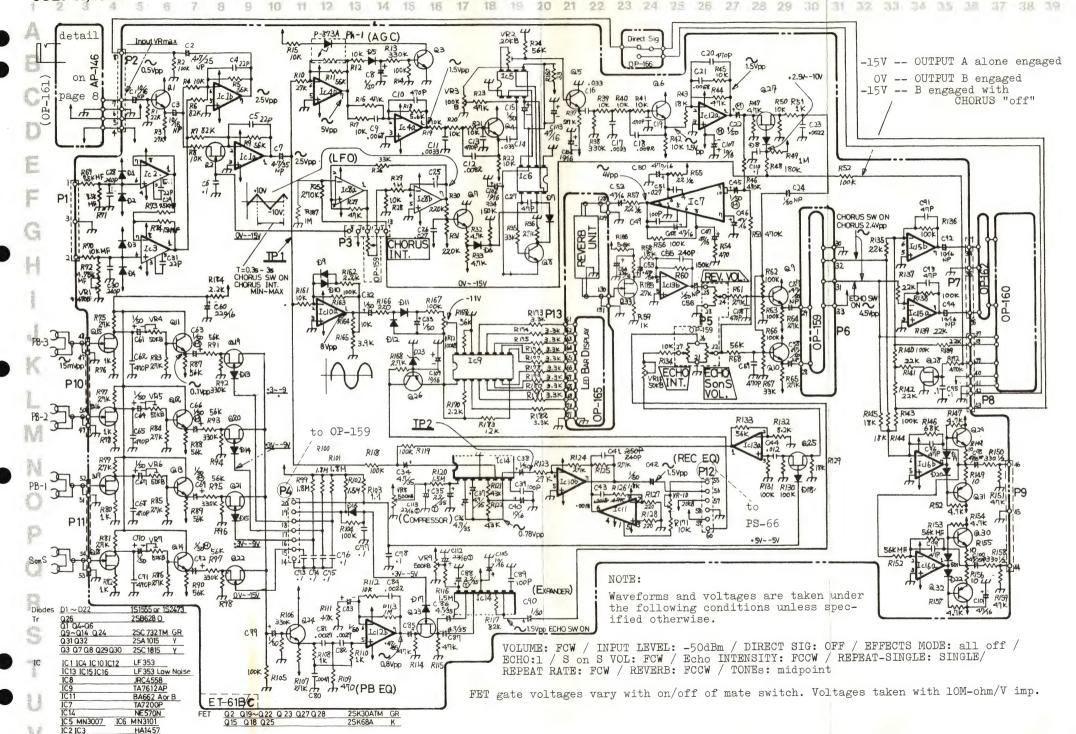


IC13,15,16 selected low noise, yellow dot

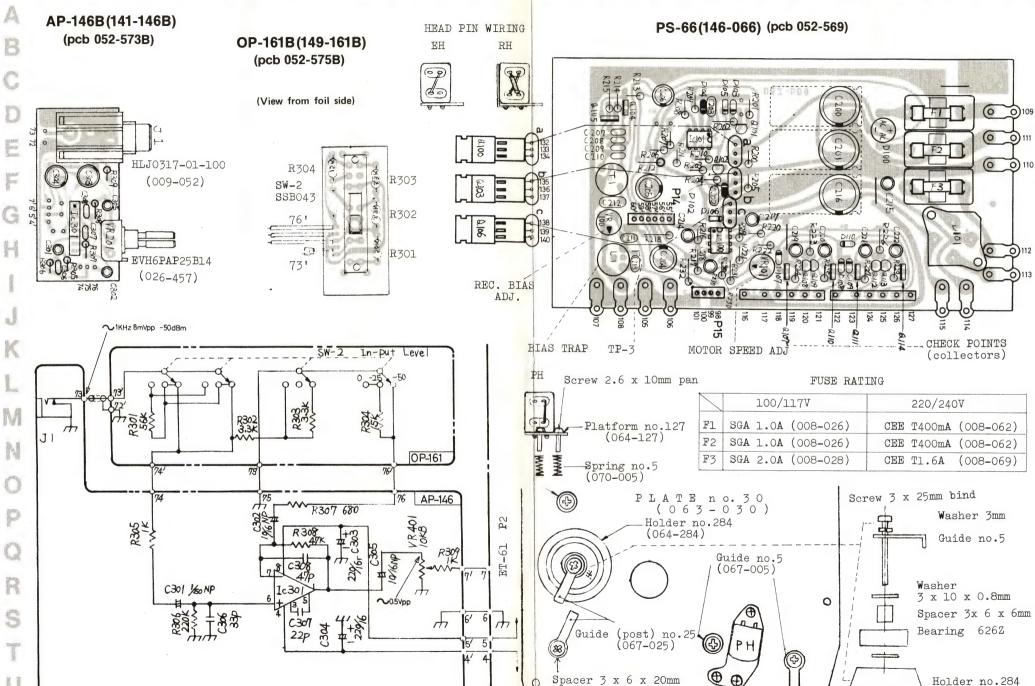
ET-61C (151-061C) (pcb 052-267C)

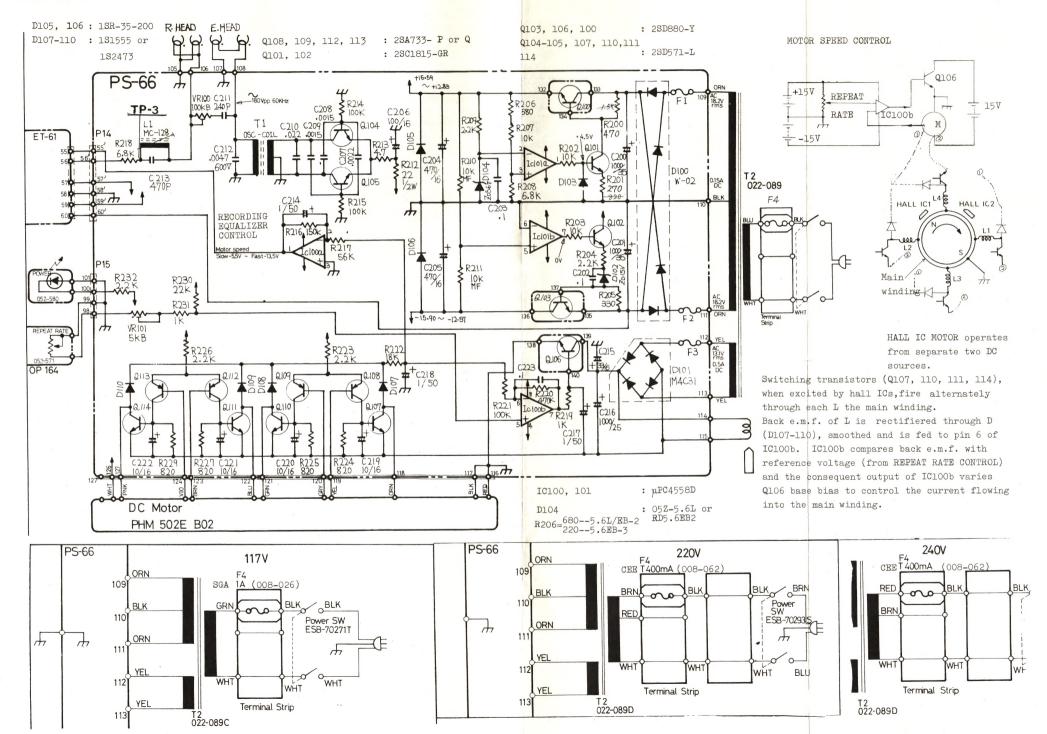
Serial Number with: RE501: 961550 SRE555: 960600









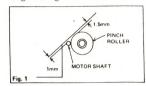


CHECKING

1. MECHANICAL ADJUSTMENT indicated below.

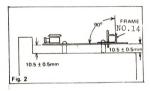
1-1. TAPE CHASSIS POSITION

Position tape chassis 1mm off motor shaft and secure it by tightening two screws at rear.



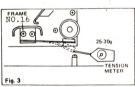
1-2. TAPE CHASSIS HEIGHT

Position chassis 10.5±0.5mm above main chassis.



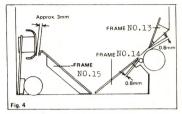
1-3. LEAF SPRING PRESSURE

Position frame no.16 to have spring contact with bearing at 25-30g.



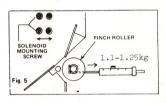
1-4. FRAMES 13.14 & 15 POSITIONS

While engaging pinch roller with motor shaft, position and fix frames as



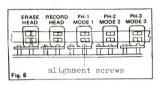
1-5. PINCH ROLLER PRESSURE

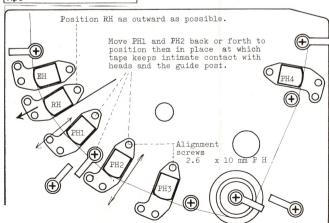
Position solenoid for 1.1-1.25kg pinch roller pressure.



1-6. HEADS ALIGNMENT

Position each head gap perpendicular to and center on the passing tape by turning alignment screws.





2. ELECTRICAL ADJUSTMENT

2-1. BIAS LEAKAGE TRAP

- PS-66 -

CONTROL PA		INPUT	REPEAT
POTENTIOMETER NO.	POINT	VOLUME	SMITO
TRAP COIL	TP3	MIN	SINGLE
COI	RE [P	

FUNDAMENTAL

2nd HARMONIC

Set VR100 at its midpoint. Connect VTVM or scope to TP-3.

a) Turn Ll core, with appropriate tool, for minimum reading (should not be more than 1V rms).

Continuous turning will dip the meter reading twice -- at funda-mental and at 2nd harmonic. Tune Ll to fundamental.

2-2. MOTOR SPEED

- PS-66 -

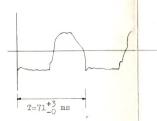
CONTROL	PANEL	1995
POTENTIOMETER NO.	POINT	REPEAT RATE
VR 101	Q107 Q110 Q111 Q114 COLLECTOR	MIN

Scope (DC couple, nagative slope, normal): one of the check points.

a) Set VR101 for the T shown in the figure below.

Time base should be triggered at the lowest negative peaks.

T should not be longer than 23ms with REPEAT RATE set at FCW position when the machine is operating on the rated line voltage.



2-3. LED BAR DISPALY

- ET-61 -

RE-501/SRE-555

INPUT LEVEL VOLUME VR12 MAX OdE

Input signal: lkHz, sine wave, +2dBm, into INPUT-2 jack.

- a) Turn VR12 FCW: then reverse it slowly until BAR displays +2dB.
- b) Make sure that LEDs read -12dB under the following settings: INPUT INPUT LEVEL

	SIGNAL
INPUT-1	-8dBm
INPUT-2	-12dBm

-37dBm -62dBm OdB -25dB -50dBm

SWITCH

2-4. COMMON MODE REJECTION

CONTROL	PANEL	INPUT	INPUT	DIRECT
OTENTIOMETER NO.	CHECK POIN*	VOLUME	LEVEL	SIGNAL SWITCH
VR 1	OUT PUT A	MIN	-	ON

			ECHO SonS	REVERB	TOP	ŧΕ.	CUTPUT
CHORUS	ECHO	SonS	VOLUME	VOLUME	BASS	TREBLE	SMITCH
OFF	OFF	OFF	MIN	MIN	MIN	MIN	0dBm

Input signal: lkHz, sine wave, +4dBm into INPUT-l jack with its pins 2 and 3 joined. Oscilloscope: OUTPUT-A.

a) Adjust VRl for minimum lkHz signal output.

2-5. COMPRESSOR LEVEL

CONTROL PA	NEL	INPUT	INPUT	REPEAT
POTENTIOMETER NO.	POINT	VOLUME	LEVEL	SINGLE SWITCH
VR8	TP 1 TP 2	MAX	OdB	SINGLE

Input signal: 1kHz, sine wave, INPUT-2.

- a) Set audio generator for -40+0.1dBm reading on millivoltmeter at TP-1.
- b) Adjust VR8 for -34.5dBm reading at TP-2. Distributed meter lead capacitance should be less than 100pF.

2-6. HEAD ALIGNMENT

The following adjustments must be done only after completion of MECHANICAL ADJUSTMENTS.

CONTROL F	MANEL	INPUT	INPUT	DIRECT	EFFECT	MODE	SWITCH
POTENTIOMETER NO.	POINT	VOLUME	SWITCH	SIGNAL SWITCH	CHORUS	ECHO	SanS
	OUT PUT	MAX		OFF	OFF	ON-	OFF
	A	MAX -		UFF	OFF	OFF	ON

ECHO SonS ECHO SonS		O SonS ECHO SonS REPEAT REVERB VOLUME		TOP	E	OUTPUT	REPEAT
VOLUME	INTENSITY	RATE	VOLLME	BASS	E TREBLE	SWITCH	SMITCH
MAX	-	CENTER	MIN	CENTER	CENTER	_	SINGLE

2-6-1. Fine Alignment

Take visual head examination for misalignment referring to the figures below. Readjust as necessary.

(a) TANGENCY



The faces of the head cores must be simultaneously tangent to the same degree with the tape.

(b) HEIGHT

	HEAD	HEAD	MODE	PH-2 MODE	PH-3 MODE 3
Σ		田田		HH	問出
PLATFORM-		Î	THE THE	TH	TI

Every gap-width dimension is centered on the same track location.

(c) AZIMUTH

Width dimension of the head gap is a precise 90-degree angle to the tape edge.

(d) TILT



The tape must contact with head surface precisely in parallel.

2-6-2. Playback heads

Input signal: lkHz, square, for OdB LED display. Panel controls setting: as shown at the left.

- a) With ECHO MODE selected to corresponding head, adjust playback head for the following:
- (1) Waveform slope is straightened.
- (2) Leading edge is as perpendicular to base line as possible or has shortest rise time.



b) Readjusting TANGENCY described in(a) of 2-6-1 at this step may prove effective to obtain waveform stability.

Output level differences among playback heads are to be compensated for in later section.

2-7. EXPANDER

POTENTIO		O.	NEL CHECK POINT	INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	EFFECT CHORLS	MODE S	SanS
VR6	VR 9	VR100	OUT PUT A	MAX	_	OFF	OFF	ΟŃ	OFF

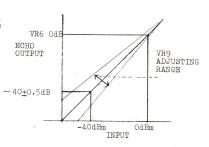
ECHO SonS VOLUME	ECHO SonS INTENSITY	REPEAT RATE	REVERB VOLUME	TON BASS	E TREBLE	OUTPUT LEVEL SWITCH	REPEAT SINGLE SWITCH
MAX	_	-	MIN	CENTER			

Input signal: lkHz, sine wave for OdB reading on LED bar. ECHO MODE: 1

- a) Set VR100 on PS-66 for maximum meter reading at OUTPUT A.
- b) Set VR6 for OdDm±3dBm reading on the meter.
 c) Decrease audio generator output by 4OdBm.
- d) Adjust VR9 so that the meter reads 40±0.5dB lower than that at step b.

As can be seen from the figure below, VR9, when turned, will deviate input-output curve at point which preadjusted by VR6. d) Repeat steps <u>b-d</u> for specified results.

This input-output curve has pronounced effect on smoothness of level decrease ratio of multiple echo sounds and residual noise. The curve should be as linear as possible.



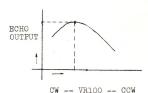
2-8. RECORDING BIAS

CONTROL PA	NEL	INPUT	INPUT	DIRECT	EFFEC	MODE	SWITCH
POTENTIOMETER NO.	POINT	VOLUME	SWITCH	SAGNAL SWITCH	CHORUS	ECHO	SanS
VR 100	OUT PUT A	MAX	QdB	OFF	OFF	OŃ	OFF

	E0H0 SonS		REVERB	TO	4E	CUTPUT	REPEA
VOLUME	INTENSITY	RATE	VOLUME	BASS	TREBLE	SWEP.	SWITCH
MAX	_	CENTER	MIN	CENTER	CENTER		SINGLE

Input signal: lkHz, sine wave, OdBm to INPUT-2.

- a) Turn VR100 FCW. Reversing it gradually, find the point which furnishes the highest output.
 b) Set VR100 for ±ldB of the peak value.



2-9. PLAYBACK EQUALIZER

CONTROL	INPUT	INPUT	DIRECT	
POTENTIOMETER NO.	CHECK POINT	VOLUME	LEVEL	SWITCH
VR6 VR 10	OUT PUT A	MAX	OdB	OFF

			ECHO SonS VOLUME	ECHO SonS INTENSIT
OFF	ΟŃ	OFF	MAX	_

REPEAT	REVERB	TO	CUTPUT	REPEA	
RATE	VOLUME	BASS	TREBLE	LEVEL SWITCH	SMITO
CENTER	MIN	CENTER	CENTER	0dBm	SINGLE

Input signal: lkHz, sine wave, OdBm to INPUT-2 jack.

ECHO MODE: 1

- a) Adjust VR6 for OdBm reading at OUTPUT A.
- b) Reset audio generator for 10kHz, OdBm.
- c) Set VR10 for -15dBm +1.5dBm -3dBm reading at OUTPUT A.

If VR10 fails to produce this output, readjust VR100 together with VR10 at lÖkHz.

2-10. PLAYBACK HEAD SENSITIVITY

CONTROL PA	INPUT	INPUT	DIRECT	EFFECT MODE SWITCH			
POTENTIOMETER NO.	POINT	VOLUME	SWITCH	SWITCH	сновиз	ECHO	SanS
VR4 VR5 VR6 VR7	OUT PUT	MAX	OAD	OFF	OFF	ON	OFF
VR4 VR5 VR6 VR7	47 A	MAX	Ogp	UFF	UFF	OFF	ON

ECHO SonS VOLUME	ECHO SonS INTENSITY	REPEAT RATE	REVERB VOLUME	BASS	IE TREBLE	OUTPUT LEVEL SWITCH	SINGLE SMITCH
MAX	_	MAX	MIN	CENTER	CENTER	0dBm	SINGLE

Input signal: 1kHz, sine wave, OdBm into INPUT 2 jack.

- To obtain equal echo outputs in sound level,
- a) adjust each trimmer potentiometer for ${\rm OdBm}^{+0.5dB}_{-{\rm OdB}}$ reading at OUTPUT A jack.

ECHO MODE	TRIMMERPOT
1	VR4
2	VR5
3	VR6
S on S	VR7

2-11. ECHO INTENSITY

INPUT DIRECT EFFECT MODE SWITCH LEVEL SUGNAL CHORUS ECHO SonS INPUT VOLUME POTENTIOMETER NO OUT PUT VR 11 MAX Odb OFF OFF ON OFF

ECHO SonS	ECHO SonS		REVERB	TON	E	CUTPUT	REPEAT
VOLUME	INTENSITY	RATE	VOLUME	BASS	TREBLE	SWITCH	SINGLE
I MAX		MAX	MIN	-	_	-	REPEAT

Input signal: 1kHz, sine wave, OdBm into INPUT 2 jack.

- a) Rotate ECHO/S on S knob to 10th point from FCCW.
- b) Feed the signal for a short period (0.5-2s). Adjust VR11 for finfinite echo repetition or oscillation.
- c) Reverse the knob to 9th point. Echo sound should die away gradually.



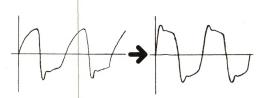
2-12. BBD BIAS (CHORUS)

CONTROL PA	CHECK	INPUT VOLUME	INPUT LEVEL SWITCH	DIRECT SIGNAL SWITCH	CHORUS INTENSITY
VR 2 VR3	OUT PUT A	MAX	-25 bB m	OFF	MIN

EFFECT MODE SWITCH			TONE		CUTPUT	REPEAT	
CHORLIS	ECHO	5 an 5	VOLUME	BASS	TREBLE	PENEP	SWITCH
ON	OFF	OFF	MIN	CENTER	CENTER	_	_

Input signal: lkHz, rectangular, 0.3Vp-p into INPUT 2 jack.

- a) Rotate VR2 to its midpoint.
- b) Set VR3 for chorus output waveform symmetrical to the base line of scope.

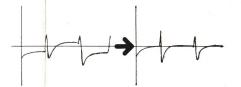


2-13. CLOCK COMPONENT REDUCTION

	CONTROL F	ANEL	INPUT	INPUT	DIRECT SIGNAL	CHORUS	EFFECT
POTENTIO	METER NO.	POINT	VOLUME	SWITCH	SWITCH	INTENSITY	CHORUS
VR 2	VR3	Q.5 BASE	MIN	_	-	_	OFF

Scope's distributed lead capacitance should not be more than 47pF.

- a) Adjust VR2 for minimum discrepancy in amplitude between clock pulses on the base line.
- b) Adjustments 2-12 and 2-13 are interrelated. Repeat both adjustments for the best result.



PARTS LIST

CABINET. PANEL

RE501

081-135 086-019 108-004 111-030 111-021 115-002 072-299 065-289	Cabinet no.135 Cabinet (upper) no.19 Handle H-15 Rubber foot G-9 Rubber foot G-5 Hinge no.2 Panel (front) no.299 Panel cover no.289 grey, back of front panel Spacer no.24 chassis-cabinet, side
SRE555	
072-311 065-292 065-294 065-293 065-291 065-296	Cover (bottom) no.291 Cover no.296
108-022 067-034 067-033 067-035 067-036 066-054 064-289	back of front panel Handle no.22 Guide no.34 right hand Guide no.35 left hand Guide no.35 rail L.hand Guide no.36 rail R.hand Case no.54 outer Holder no.289

SWITCH. KNOB

070-062 Leaf spring no 12170703 Roller no.12170703 111-023 Rubber foot G-

123-016 Decoration screw no.16 *ref.p-2 for detail

no.62

Switch			
13129113 13129114 13129115 001-305 001-266 001-304 001-205 001-182 001-306	ESB70226 ESB70271 ESB70293 SRJ-1016 SLR-0223 SSB-0430 SSB-0226 SSB-0226 SUF-32A3	T power Spower S	e OUTPUT e DIRECT
Knob			
016-103 016-078 016-085 016-009	No.103 No.78 Button	pots.	switch white k(SRE555)

SEMICONDUCTOR

SEMICO	NDUCTOR
Transistor	,
017-139 017-077 017-258 017-103 017-024 017-106 017-116 017-081 017-014	2SD880-Y 2SB628-R 2SD571-L 2SC732TM-GR 2SA733- P or Q 2SC1815- GR or Y 2SA1015-Y 2SK68A-K FET 2SK30ATM-GR FET
Diode	
018-014 018-082 018-093 018-101 15019654 15019525 or (RD5. with see 019-028	182473 W-02 M4C31 1SR-35-200 RD16EB-2 zener RD5.6B-2 zener 05Z5.6L 6B-3 can be a replacement the resistor value changed, PS-66 circuit diagram.) TLR-124 red LED TLR-401 10-segment LED BAR P873A red or white photocoupler
IC	
020-028 020-208 020-071 020-160 020-213 020-224 020-226 020-098 020-080	TA-7200P LF353N JRC- or µPC- 4558D BA-662- A or B MN3007 BBD MN3101 BBD driver TA7612AP LED BAR driver NE570N compander HA1457 pre amp
020-208\$	LF353N selected, yellow

POTENTIOMETER

026-457 026-460 027-016 026-447	EVH6PAP2 EVH6PAP2 EWKENAP2 EVH6PAP2	25B15 25B15	dual, ganged
028-003 028-004 028-005 028-006 028-007	EVTR4AA EVTR4AA EVTR4AA EVTR4AA EVTR4AA	5K 10K 20K 50K 100K	trimmer trimmer trimmer trimmer
13299547 030-487	CR19R CR19R	220 470	trimmer trimmer

RE-501/SRE-555

JULY 11.1980

SOCKET. CONNECTOR		HEAD.	DRIVINGS
009-053	HLJ1317-01-100 HLJ1317-01-100 HLJ1317-01-040 HLJ0317-01-040 *Type 1317 countersunk opening, used on later products.	049-003 049-004 049-001 065-118 064-127 070-005 063-030	Record head R-280MR Playback head R-280MP Erase head AE-28 Shield no.118 R.Head Platform no.127 Spring no.5 alignment Plate no.30 platform mount
010-263	NC-3FP or HA16PR-3S female NC-3MP or HA16R3P male	065-286 067-005 067-025 112-001 068-006 101-001	Cover no.286 above heads Tape guide no.5 (post) Guide no.25 L shape Pinch roller no.1 Cover no.6 pinch roller Shaft no.1 pinch roller
PRINT	TED CIRCUIT BOARD	06 <mark>4</mark> –284	Holder no.284 (guide bearing base)
141-146B 146-066	AP-146B (pcb 052-573B) PS-66 (pcb 052-569)	113-004	Bearing 626ZZC2 (guide bearing)
149-159A 149-160B 149-161B 149-162A	OP-159A (pcb 052-570A) OP-160B (pcb 052-578B) OP-161B (pcb 052-575B) OP-162A (pcb 052-577A) OP-163A (pcb 052-576A)	050-006 065-106 120-037	Motor PHM-502E-B02 Cover no.106 motor Nut no.37 motor mount
149-164		*PARTS	ON TAPE CHASSIS PAGE 3
149-169A 149-170 151-061C *	OP-169A (pcb 052-581A) OP-170 (pcb 052-572) ET-61C (pcb 052-567C) direct replacement for ET-61 A/B	171-001 069-009 050-004 070-032A 070-007 070-022	Arm unit assy AU-1 Shaft no.9 AU-1 mount DC solenoid MD1811R Spring no.32A Spring no.7
		123-006	Spring no.22 Screw no.6 plunger adjust
022-095 022-045 022-089N 022-089C	Osc coil MCl26-2141 Trap coil MC-128 Transformer PT89N 100V PT89C 117V		* detail ref. pp.2-3.
022-089D	PT89D 220/240V	040-001	Reverb unit Z-3F
FUSE	FUSE HOLDER	06 <mark>4-</mark> 040 06 4- 283	Bracket no.40 PS-66 mount Bracket no.283 PS-66 mount
008-026 008-028 008-062 008-069	SGA 1.0A F1,2,4 100/117V SGA 2.0A F3 100/117V CEE T400mA F1,2,4 220/240V CEE T1.6A F3 220/240V	064-033	PCB holder LCB-4N (rocker rivet)
012-003	Clip TF-758 sec.		
012-018	Clip X-N1153 prim.	CHAS	ssis
i	E PARTS DESIGNATED NEW NUMBERINGS	061-302-1 061-302-2 061-303 061-304	